



S&H Form: (2/01) DOCKET NO. 1454.1629

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Martin BOSSERT et al.

Serial No: 10/553,411

Group Art Unit: 2618

Confirmation No. 3710

Filed: October 17, 2005

Examiner: Unknown

For: METHOD AND TRANSMITTER FOR TRANSMITTING DATA IN A MULTI-CARRIER

SYSTEM VIA A NUMBER OF TRANSMITTING ANTENNAS

### REQUEST FOR CORRECTED FILING RECEIPT

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

It is requested that the city of the second and fifth Inventors, name of the third Inventor, and Assignee on the Official Filing Receipt be corrected. The city of the second and fifth Inventors should be correctly reflected as **Munich**. The name of the third Inventor is Axel HÜBNER. Assuming that umlauts cannot be printed on the Notice of Recordation of Assignment Document, the name of the third Inventor should be recorded as **Axel HUEBNER**, using conventional transliteration to substitute "ue" for "ü". The Assignee should be correctly reflected as **SIEMENS AG, Munich, GERMANY**. These corrections are evidenced by the executed Declaration and Assignment, attached to the application as filed. For the convenience of the Patent and Trademark Office, attached is a photocopy of the original receipt on which the errors have been noted in red.



AUG 0 4 2006

Respectfully submitted,

STAAS & HALSEY LLP

Date: August 4 2006

By: WJ2 HW Mark J. Henry Registration No. 36,162

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

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IND CLMS **DRAWINGS** TOT CLMS FILING OR 371 ATTY.DOCKET NO FIL FEE REC'D ART UNIT APPL NO. (c) DATE 12 1454.1629 900. 10/17/2005 2618 10/553,411

**CONFIRMATION NO. 3710** 

21171 STAAS & HALSEY LLP JIM LIVINGSTON SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005

FILING RECEIPT OC000000019404731

Date Mailed: 07/07/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Martin Bossert, Ulm, GERMANY; Elena Costa [Munchen] GERMANY; Axel Hubner Ulm, GERMANY; Matthias Lott, Neuried, GERMANY;
Egon Schulz Munchen GERMANY;
--Assignment For Published Patent Application—
TEMBUS AG, Munich, GERMANY.

Power of Attorney: The patent practitioners associated with Customer Number 21171.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/EP04/02773 03/17/2004

Foreign Applications

EUROPEAN PATENT OFFICE (EPO) 03008902.3 04/16/2003 If Required, Foreign Filing License Granted: 06/22/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US10/553,411

Projected Publication Date: 10/05/2006

Non-Publication Request: No

Early Publication Request: No

Title

Method and transmitter for transmitting data in a multi-carrier system via a number of transmitting antennas

**Preliminary Class** 

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### PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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# Declaration and Power of Attorney For . atent Application Erklärung Für Patentanmeldungen Mit Vollmacht German Language Declaration

Als nachstehend senathing Erfinder erkläre ich hiermit an Eides Statt:

As a below named inventor, I hereby declare that:

as stated below next to my name,

dass mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen, dass ich, nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent für die Erfindung mit dem Titel beantragt wird:

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

My residence, post office address and citizenship are

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deren Beschreibung hier beigefügt ist, es sei denn (in diesem Falle Zutreffendes bitte ankreuzen), diese Erfindung the specification of which is attached hereto unless the following box is checked:

wurde angemeldet am 17.03.2004 unter der US-Anmeldenummer oder unter der Internationalen Anmeldenummer im Rahmen des PCT-Vertrags PCT/EP2004/002773 und am 16.07.2005 abgeändert (falls zutreffend).

was filed on 17.03.2004
as United States Application Number or PCT
International Application Number
PCT/EP2004/002773 and was amended on
16.07.2005 (if applicable).

Ich bestätige hiermit, dass ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche, die eventuell durch einen Zusatzantrag wie oben erwähnt abgeändert wurde, durchgesehen und verstanden habe.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

Ich erkenne meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Titel 37, Code of Federal Regulations, § 1.58 von Belang sind. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäß Title 35, United States Code, § US-Code, § 119 (a)-(d), bzw. § 365(b) aller unten aufgeführten Auslandsanmeldungen für Patente oder Erfinderurkunden, oder § 365(a) aller PCT internationalen Anmeldungen, welche wenigstens ein Land ausser den Vereinigten Staaten von Amerika benennen, und habe nachstehend durch ankreuzen sämtliche Auslandsanmeldungen für Patente bzw. Erfinderurkunden oder PCT internationale Anmeldungen angegeben, deren Anmeldetag dem der Anmeldung, für welche Priorität beansprucht wird, vorangeht.

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Page 1

Anti-timet month and a manus					
Prior foreign appplication Priorität beansprucht	ns			Priority	Claimed
EP03008902 (Number) (Nummer)	EP (Country) (Land)	16.04.2003 (Day Month Year Fil (Tag Monat Jahr ein		Yes Ja	No Nein
(Number) (Nummer)	(Country) (Land)	(Day Month Year Fil (Tag Monet Jahr ein		☐ Yes Ja	No Nein
(Number) (Nummer)	(Country) (Land)	(Day Month Year Fil (Tag Monat Jahr ein	ed) gereicht)	☐ Yes Ja	No Nein
(Number) (Nummer)	(Country) (Land)	(Day Month Year Fil (Tag Monat Jahr ein		☐ Yes Ja	□ No Nein
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(Application Serial No.) (Anneldeseriennummer)	(Filing Date t		(Status) (patenliari, anhängig, aufgeben)	• (ра	atus) mented, pending, andoned)

Ich erkläre hiermit, daß alle in der vorliegenden Erklärung von mir gemachten Angaben nach bestem Wissen und Gewissen der Wahrheit entsprechen, und ferner daß ich diese eidesstattliche Erklärung in Kenntnis dessen ablege, daß wissentlich und voreatzlich falsche Angaben oder dergleichen gemäß § 1001, Title 18 des US-Code strafbar sind und mit Geldstrafe und/oder Gefängnis bestraft werden können und daß derartige wissentlich und vorsätzlich falsche Angaben die Rechtswirksamkeit der vorliegenden Patentanmeldung oder eines aufgrund deren erteilten Patentes gefährden können.

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### German Language Declaration

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

	Customer No. 21171
Telefongespräche bitte richten an: (Name und Telefonnummer)	Direct Telephone Calls to: (name and telephon number)
•	Ext
Postanschrift.	Send Correspondence to:
Staas & Halsey L	LP Intellectual Property Attorneys

Staas & Haisey LLP Intellectual Property Attorneys
1201 New York Avenue, NW, Suite 700 20005 Washington UNITED STATES OF AMERICA
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or Customer No. 21171

Voller Name des einzigen oder ursprünglichen Erfinders:	Full name of sole or first inventor:		
Prof. Martin Bossert	Prof. Martin Bossert		
Unterschrift of Erfinders - Datum	Inventor's signature Cate		
Unterschrift offs Entinders - Botseef &	8.2005		
Wohnstz	Residence		
Ulm, GERMANY	Ulm, GERMANY		
Staatsangehürigkett	Çitizenship		
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Postenschrift	Post Office Addess		
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Dr. Elena Costa	Dr. Elena Costa		
Unterschrift das Erfinders Datum	inventor's signature Date		
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(Bitte entsprechende Informationen und Unterschriften im Falle von dritten und weiteren Miterfindern angeben).

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### German Language Declaration

VERTRETUNGSVOLMACHT: Als benannte	r Erfinder
beauftrage ich hiermit den (die) nach	chstehend
aufgeführten Patentanwalt (Patentanwälte)	und/oder
Vertreter mit der Verfolgung der vor	tiegenden
Patentanmeldung sowie mit der Äbwicklung :	aller damit
verbundenen Angelegenheiten vor dem E	IS-Ratent-
und Markenamt (Maghein)	la und
verbundenen Angelegenheiten vor dem E und Markenamt (Visiblein) Registrationsnummer(n) auflisten)	'%\
	70 \

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

UG 0 4 [000 Cuestomer No. 21171

And I hereby appoint

Telefongespräche bitte richten and (Name und Telefonnummer)

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Ext. \_\_\_\_\_

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Voller Name des einzigen oder ursprünglichen Erlinders:		Full name of sole or first inventor:	
Prof. Martin Bossert		Prof. Martin Bossert	
Unterschrift des Erfinders	Datum	Inventor's signature	Date
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Valler Name des zweiten Miterlinders (falls zutrefiend)	!	Full name of second joint inventor, if any	
Dr. Elena Costa		Dr. Elena Costa	
Unterschrift des Erfinders	Datum	Inventore signature	Date
felwolosto-	03.08.Zoo5	/ Henocesha	03.08.205
Wohnsit 2		Residence	
München, GERMANY		München, GERMANY	
Staatsangehörigkeit		Citizenship	
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Klara-Ziegler-Bogen 9a		Klara-Ziegler-Bogen 9a	
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Matthias Lott	Full name of tourth joint inventor:
nterschrift des Erforders	Matthias Lott
Mathia 75 7 3/8/05	inveniors algorithm   Date   3/8/85
/ahnstz	Residence 18/8
leuried, GERMANY	Neuried, GERMANY
aatsangehorigkali	Citizenship
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2061 Neuried ERMANY	82061 Neuried
	GERMANY
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r. Egon Schulz iterschrift des Erfigders Cestum /	Dr. Egon Schulz
OYOS/2005 Escus John Connection	Investina signature Clube C3/08/2005-
ünchen, GERMANY	Monchen, GERMANY
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Er Name des sechsten Miterlinders:	GERMANY
er Mane des secheten Mitchinders:	Full name of sixth joint inventor:
erschrift des Erfinders Datum	Inventor's signature Date
hnaiz	Residence
ateangehöfigkeit	Citzenship
anschuift	Post Office Address
ntsprechende Informationen und Unterschriften im	
on dritten und weiteren Milerfindern angeben).	(Supply similar information and signature for third and subsequent joint inventors).
1	

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Patent and Trademark Office-U.S. DEPARTMENT OF COMMERCE

*3006* + Unlerschin Voler Name des dritten Miterlinders: Full name of third joint breaktar Axel Hübner Axel Hobner brentore elanoture Untersehrin des Erlingers Date entidenso Ulm, GERMANY UIM, GERMANY Standardonardia: Carpoliship DE DE Postanachrid Post Office Address Ensingerstr. 31 Ensingerstr, 31 89073 Ulm 89073 Ulm GERMANY GERMANY Voller Name des vierten Miterleiders Full name of fourth joint inventor Matthias Lott Matthlas Lott Unterpoint des Erbidors Datum Inventor's a grigiuro-.. Date Wahnelz Rendenco Neuried, GERMANY Neuried, GERMANY **Stantungohörigkeit** Calcountip DE Postanschrift Pour Office Address Zugspitzstr. 3 Zuaspitzstr. 3 82061 Neuried 82061 Neurled GERMANY **GERMANY** Volier Name des fünken Wierlinders Full name of figh loint inventor Dr. Egon Schulz Dr. Egon Schulz Datum . Unterschaff des Erendare inventor's signature Cote Wohnstz Regidence München, GERMANY München, GERMANY Stanburgahorigke) Crizenship DE DE Postunschrin Post Office Address Wittenberger Str. 3 Wittenberger Str. 3 80993 München 80993 München **GERMANY** GERMANY Valer Name des sechsten Miterlinders FUI mame of sorth point inventor Unterspull des Erinders Dulum פועות הומום פיומולים Onte Wohnstz Residence Examsangehoriakoli Catenzhio Pockanschim Post Office Address (Bitte entsprochende Informationen und Unterschriften Im (Supply similar information and signature for third and Falls von dritton und weiteren Miterfindern angeben) aubsequent joint invantors).

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#### ASSIGNMENT

For good and valuable consideration, I/we, the undersigned

Prof. Martin Bossert

Dr. Elena Costa

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residing at:

residing at:

hereby sell, assign, and transfer to

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(Title:) Verfahren und Sender zur Übertragung von Daten in einem Mehrträgersystem über eine Mehrzahl von Sendeantennen

disclosed in the PCT international application for Letters Patent designating the United States, said application being identified in our records as

Applicants File No.

2003P05631WOUS

and filed as PCT-application

PCT/EP2004/002773

and in and to said application and all divisional, continuing substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States on any of said improvements; and in and to all original and reissued patents which have been or shall be issued in the United States on said improvements;

DNR: 4248 / V: 04-1.00 / B: Val

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1,	Prof. Martin Bossert
Witnesses:	
Witnesses: 3. CCZ (type name) BORIS STENDER	
WALL TOWNS BOXIS STEADER	
Date:	
	Dr. Elena Costa
Witnesses:	
(type name)	
Witnesses:	
(type name)	
Detai	
Date:	Axel Hübner
Witnesses:	
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hereby agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name and that when requested without charge to but at the expense of said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and legal representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements in said Assignee, its successors, assigns, and legal representatives; and

hereby covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed had been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

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